

AMENDMENTS TO THE SPECIFICATION

Please replace equation (3) in page 6 with the following equation:

B1

$$N \times (R1 \times R2)^{\frac{1}{2}} / \{2\pi \times L1 \times (1 - k^2)^{\frac{1}{2}}\} \geq 20000$$

Please replace equation (4) in page 6 with the following equation:

B2

$$2\pi \times f \times L1^2 \times (N^2 \times R2 + L1 \times R1) / (N^2 \times X^{\frac{1}{2}}) \geq 0.3$$

$$X = (2\pi \times f)^2 \times (L1 \times R1 + L1 \times R1 / N^2)^2 \\ + \{-R1 \times R2 + (2\pi \times f)^2 \times L1^2 \times (1 - k^2) / N^2\}^2$$

Please replace equation (6) in page 11 with the following equation:

B3

$$N \times (R1 \times R2)^{\frac{1}{2}} / (2\pi \times L1 \times (1 - k^2)^{\frac{1}{2}}) \geq 20000$$

Please replace equation (7) in page 12 with the following equation:

B4

$$2\pi \times f \times L1^2 \times (N^2 \times R2 + L1 \times R1) / (N^2 \times X^{\frac{1}{2}}) \geq 0.3$$

$$X = (2\pi \times f)^2 \times (L1 \times R1 + L1 \times R1 / N^2)^2 \\ + \{-R1 \times R2 + (2\pi \times f)^2 \times L1^2 \times (1 - k^2) / N^2\}^2$$

Please replace equation (8) in page 13 with the following equation:

$$Z_{in} = (R_1 + A^2 \times R_2) + j\omega (L_1 - A^2 \times L_2)$$

$$A^2 = \omega^2 \times M^2 / (\omega^2 \times L_2^2 + R_2^2)$$

$$M^2 = K^2 \times L_1 \times L_2$$

Please replace the equation in line 12 of page 13 with the following equation:

$$A^2 = M^2 / L_2^2 = k^2 \times L_1 / L_2$$

Please replace equation (9) in page 13 with the following equation:

$$Z_{in} = (R_1 + k^2 \times R_2 \times L_1 \times L_2) + j\omega L_1 (1 - k^2)$$

Please replace equation (11) in page 14 with the following equation:

$$I_2 / V_1 = \omega \cdot k (L_1 \times L_2)^{1/2} / Y^{1/2}$$

$$Y = \omega^2 \times (L_1 \times R_2 + L_2 \times R_1)^2$$

$$+ \{-R_1 \times R_2 + \omega^2 \times L_1 \times L_2 \times (1 - k^2)\}^2$$

Please replace equation (12) in page 14 with the

following equation:

B9
$$f_0 = N \times (R1 \times R2)^{\frac{1}{2}} / \{2\pi \times L1 \times (1-k^2)^{\frac{1}{2}}\}$$

Please replace equation (15) in page 16 with the following equation:

B10
$$I2 / V1 = \omega \cdot k (L1 \times L2)^{\frac{1}{2}} / Y^{\frac{1}{2}}$$

$$Y = \omega^2 \times (L1 \times R2 + L2 \times R1)^2 + \{-R1 \times R2 + \omega^2 \times L1 \times L2 \times (1-k^2)\}^2$$

Please replace equation (16) in page 16 with the following equation:

B11
$$I2 / V1 \text{ (max)} = k \times (L1 \times L2)^{\frac{1}{2}} / (L1 \times R2 + L2 \times R1)$$

Please replace the equations in lines 4 and 5 of the Abstract with the following formula:

B12
$$N \times (R1 \times R2)^{\frac{1}{2}} / \{2\pi \times L1 \times (1 - k^2)^{\frac{1}{2}}\} \geq 20000$$